

Table 2. Species List for the Sacramento-San Joaquin River Aquatic Ecosystem

Common Name	Scientific Name	Origin	Habitat
Fish			
American shad	<i>Alosa sapidissima</i>	introduced	anadromous
Arrow goby	<i>Clevelandia ios</i>	native	marine
Barred surfperch	<i>Amphistichus argenteus</i>	native	marine
Bat ray	<i>Myliobatis californicus</i>	native	marine
Bay goby	<i>Lepidogobius lepidus</i>	native	marine
Bay pipefish	<i>Syngnathus griseolineatus</i>	native	marine
Big skate	<i>Raja binoculata</i>	native	marine
Bigscale logperch	<i>Percina macrolepida</i>	introduced	freshwater
Black bullhead	<i>Ictalurus melas</i>	introduced	freshwater
Black crappie	<i>Pomoxis nigromaculatus</i>	introduced	freshwater
Black surfperch	<i>Embiotoca jacksoni</i>	native	marine
Blue rockfish	<i>Sebastes mystinus</i>	native	marine
Bluegill	<i>Lepomis macrochirus</i>	introduced	freshwater
Brown bullhead	<i>Ictalurus nebulosus</i>	introduced	freshwater
Brown rockfish	<i>Sebastes auriculatus</i>	native	marine
Brown smoothhound	<i>Triakis henlei</i>	native	marine
Brown trout	<i>Salmo trutta</i>	introduced	freshwater
Cabezon	<i>Scorpaenichthys marmoratus</i>	native	marine
California halibut	<i>Paralichthys californicus</i>	native	marine

Common Name	Scientific Name	Origin	Habitat
California roach	<i>Hesperoleucus symmetricus</i>	native	freshwater
California tonguefish	<i>Symphurus atricauda</i>	native	marine
Carp	<i>Cyprinus carpio</i>	introduced	freshwater
Chameleon goby	<i>Tridentiger trigonocephalus</i>	introduced	estuarine
Channel catfish	<i>Ictalurus punctatus</i>	introduced	freshwater
<b>Chinook salmon</b>	<i>Oncorhynchus tshawytschaw</i>	<b>native</b>	<b>anadromous</b>
Coastrange sculpin	<i>Cottus aleuticus</i>	native	freshwater
Coho salmon	<i>Oncorhynchus kisutch</i>	introduced	freshwater
<b>Delta smelt</b>	<i>Hypomesus transpacificus</i>	<b>native</b>	<b>estuarine</b>
Diamond turbot	<i>Hypsopsetta guttulata</i>	native	marine
Dogfish	<i>Squalus acanthias</i>	native	marine
English sole	<i>Parophrys vetulus</i>	native	marine
Fathead minnow	<i>Pimephales promelas</i>	introduced	freshwater
Golden shiner	<i>Notemigonus crysoleucas</i>	introduced	freshwater
Goldfish	<i>Carassius auratus</i>	introduced	freshwater
Green sturgeon	<i>Acipenser medirostris</i>	native	anadromous
Green sunfish	<i>Lepomis cyanellus</i>	introduced	freshwater
Hardhead	<i>Mylopharodon conocephalus</i>	native	freshwater
Hitch	<i>Lavinia exilicauda</i>	native	freshwater
<b>Inland silverside</b>	<i>Menidia audens</i>	<b>introduced</b>	<b>freshwater</b>
Jacksmelt	<i>Atherinopsis californiensis</i>	native	marine

Common Name	Scientific Name	Origin	Habitat
Kokanee salmon	<i>Oncorhynchus nerka</i>	introduced	freshwater
<b>Largemouth bass</b>	<i>Micropterus salmoides</i>	<b>introduced</b>	<b>freshwater</b>
Lingcod	<i>Ophiodon elongatus</i>	native	marine
<b>Longfin smelt</b>	<i>Spirinchus thaleichthys</i>	<b>native</b>	<b>estuarine</b>
Longjaw mudsucker	<i>Gillichthys mirabilis</i>	native	marine
Mosquitofish	<i>Gambusia affinis</i>	introduced	freshwater
Night smelt	<i>Spirinchus starksi</i>	native	marine
Northern anchovy	<i>Engraulis mordax</i>	native	marine
Northern midshipman	<i>Porichthys notatus</i>	native	marine
Pacific brook lamprey	<i>Lampetra pacifica</i>	native	freshwater
Pacific hake	<i>Merluccius productus</i>	native	marine
<b>Pacific herring</b>	<i>Clupea harengus pallasii</i>	<b>native</b>	<b>marine</b>
Pacific lamprey	<i>Lampetra tridentata</i>	native	anadromous
Pacific sanddab	<i>Citharichthys sordidus</i>	native	marine
Pacific saury	<i>Cololabis saira</i>	native	marine
Pacific tomcod	<i>Microgadus proximus</i>	native	marine
Pile perch	<i>Rhacochilus vacca</i>	native	marine
Prickly sculpin	<i>Cottus asper</i>	native	freshwater
<b>Rainbow trout</b>	<i>Oncorhynchus mykiss</i>	<b>native</b>	<b>anadromous</b>
Rainwater killifish	<i>Lucania parva</i>	introduced	estuarine

Common Name	Scientific Name	Origin	Habitat
Red shiner	<i>Notropis lutrensis</i>	introduced	freshwater
Redear sunfish	<i>Lepomis microlophus</i>	introduced	freshwater
Riffle sculpin	<i>Cottus gulosus</i>	native	freshwater
River lamprey	<i>Lampetra ayresi</i>	native	anadromous
<b>Sacramento blackfish</b>	<b><i>Orthodon microlepidotus</i></b>	<b>native</b>	<b>freshwater</b>
Sacramento perch	<i>Archoplites interruptus</i>	native	freshwater
<b>Sacramento splittail</b>	<b><i>Pogonichthys macrolepidotus</i></b>	<b>native</b>	<b>freshwater</b>
<b>Sacramento squawfish</b>	<b><i>Ptychocheilus grandis</i></b>	<b>native</b>	<b>freshwater</b>
Sacramento sucker	<i>Catostomus occidentalis</i>	native	freshwater
Saddleback gunnel	<i>Pholis ornata</i>	native	marine
Sand sole	<i>Psettichthys melanosticus</i>	native	marine
Shimofuri goby	<i>Tridentiger bifasciatus</i>	introduced	estuarine
Shiner perch	<i>Cymatogaster aggregata</i>	native	marine
Slender sole	<i>Lyopsetta exilis</i>	native	marine
<b>Smallmouth bass</b>	<b><i>Micropterus dolomieu</i></b>	<b>introduced</b>	<b>freshwater</b>
Speckled dace	<i>Rhinichthys osculus</i>	native	freshwater
Spotted bass	<i>Micropterus punctulatus</i>	introduced	freshwater
Staghorn sculpin	<i>Leptocottus armatus</i>	native	estuarine
Starry flounder	<i>Platichthys stellatus</i>	native	estuarine
<b>Steelhead trout</b>	<b><i>Oncorhynchus mykiss</i></b>	<b>native</b>	<b>anadromous</b>

Common Name	Scientific Name	Origin	Habitat
<b>Striped bass</b>	<i>Morone saxatilis</i>	<b>introduced</b>	<b>anadromous</b>
Surf smelt	<i>Hypomesus pretiosus</i>	native	marine
Threadfin shad	<i>Dorosoma petenense</i>	introduced	freshwater
Threespine stickleback	<i>Gasterosteus aculeatus</i>	native	freshwater
Topsmelt	<i>Atherinops affinis</i>	native	marine
Tule perch	<i>Hysterocarpus traskii</i>	native	freshwater
Wakasagi	<i>Hypomesus nipponensis</i>	introduced	freshwater
Walleye surfperch	<i>Hyperprosopos argenteum</i>	native	marine
Warmouth	<i>Lepomis gulosus</i>	introduced	freshwater
<b>White catfish</b>	<i>Ictalurus catus</i>	<b>introduced</b>	<b>freshwater</b>
White crappie	<i>Pomoxis annularis</i>	introduced	freshwater
White croaker	<i>Genyonemus lineatus</i>	native	marine
White surfperch	<i>Phanerodon furcatus</i>	native	marine
<b>White sturgeon</b>	<i>Acipenser transmontanus</i>	<b>native</b>	<b>anadromous</b>
Whitebait smelt	<i>Allosmerus elongatus</i>	native	marine
Yellow bullhead	<i>Ictalurus natalis</i>	introduced	freshwater
Yellowfin goby	<i>Acanthogobius flavimanus</i>	introduced	estuarine
Yellowtail rockfish	<i>Sebastes flavidus</i>	native	marine
Invertebrates			
<b>Rotifers</b>	<b>Rotifera</b>	----	----
Cladocerans	Cladocera	----	----

Common Name	Scientific Name	Origin	Habitat
Native copepod	<i>Eurytemora affinis</i>	native	estuarine
Introduced copepod 1	<i>Limnoithona</i> spp.	introduced	estuarine
Introduced copepod 2	<i>Sinocalanus doerrii</i>	introduced	estuarine
Introduced copepod 3	<i>Pseudodiaptomus forbesi</i>	introduced	estuarine
<b>Native mysid shrimp</b>	<i>Neomysis mercedis</i>	<b>native</b>	<b>estuarine</b>
Introduced mysid shrimp	<i>Acanthomysis</i> spp.	introduced	estuarine
Introduced amphipod	<i>Gammarus diaberi</i>	introduced	estuarine
Benthic amphipod	<i>Corophium</i> spp.	native	freshwater
Green crab	<i>Carcinus maenas</i>	introduced	marine
Mitten crab	<i>Eriocheir sinensis</i>	introduced	estuarine
Dungeness crab	<i>Cancer magister</i>	native	marine
<b>Crayfish</b>	<i>Pacifastacus leniusculus</i>	<b>introduced</b>	<b>freshwater</b>
<b>Bay shrimp</b>	<i>Crangon franciscorum</i>	<b>native</b>	<b>estuarine</b>
<b>Terrestrial invertebrates</b>	(insects, spiders, etc.)	----	----
<b>Other aquatic invertebrates</b>	(riverine insects, rotifers, etc)	----	----
Asiatic clam	<i>Corbicula fluminea</i>	introduced	freshwater
<b>Asian clam</b>	<i>Potamocorbula amurensis</i>	<b>introduced</b>	<b>estuarine</b>

Note: Species that are printed in **bold** are the species selected for inclusion in the impact analysis.